Fibring Theorem: 
$$\iint_{\mathcal{R}} f(x,y) d\lambda = \int_{C} \int_{a}^{b} f(x,y) dx$$

$$152.5$$

$$\iint_{x_0} \frac{3(1+x^2)}{1+y^2} d\lambda$$

$$\iint_{x_0} \frac{3(1+x^2)}{1+y^2} dx dy$$

$$\iint_{x_0} \frac{3}{1+y^2} \left[ \frac{3}{1+y^2} \right] dy$$

$$\iint_{a} \frac{3}{1+y^2} \left[ \frac{1}{1+y^2} \right] dy$$

$$\iint_{a} \frac{3}{1+y^2} d\lambda$$

$$\lim_{a \to \infty} \frac{3}{1+y^2} \left[ \frac{1}{1+y^2} dy \right] dx$$

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$$\lim_{a \to \infty} \frac{3}{1+y^2} \left[ \frac{3}{1+y^2} dy \right] dx$$

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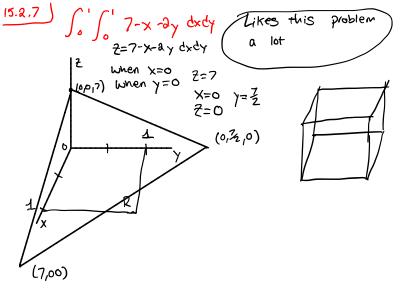
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15.2.10

Find the volume enclosed by
$$Z = 3 + x^{2} + (y - \theta)^{2}$$
Planes  $Z = 1$ ,  $x = -2$ ,  $x = 2$ ,  $y = 0$ ,  $y = 2$ 

$$\iint_{R} \frac{Z(x,y)}{x} dA$$

$$\int_{0}^{2} \int_{-\lambda}^{2} 3+x^{2}+(y-2)^{2}-1 dxdy$$

$$\int_{0}^{2} \left[3x+\frac{1}{3}x^{3}+x(y-2)^{2}-x\right]_{-2}^{2} dy$$

$$\int_{0}^{2} \left[2x+\frac{1}{3}x^{3}+x(y-2)^{2}\right] dy$$